

Service Manual

Auto Washer

Model: DWF-760/761/762

DWF-810/811/812

✓ Caution

: In this Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service Information Center (http://svc.dwe.co.kr).

DAEWOO ELECTRONICS CO., LTD.

http://svc.dwe.co.kr Aug. 2002

washer auto washer auto

Contents

. SPECIFICATIONS	
2. STRUCTURE OF THE WASHING MACHINE	3
B. FUNCTIONS OF THE CONTROL PANEL	4
. DIRECTIONS FOR INSTALLATION AND USE	
LOCATION OF WASHER	5
DRAIN SYSTEM	
HOW TO CONNECT THE INLET HOSE	6
HOW TO CLEAN THE FILTER	7
5. FEATURE AND TECHNICAL EXPLANATION	
FEATURE OF THE WASHING MACHINE	8
WATER CURRENT TO ADJUST THE UNBALANCED LOAD	
AUTOMATIC WATER SUPPLY SYSTEM	8
AUTOMATIC DRAINING TIME ADJUSTMENT	9
SOFTENER DISPENSER	
AUTOMATIC UNBALANCE ADJUSTMENT	
CIRCULATING-WATER	
LINT FILTER	
RESIDUAL TIME DISPLAY	
DRAIN MOTOR	
GEAR MECHANISM ASS'Y	
PRINCIPLE OF BUBBLE GENERATOR	
FUNCTIONAL PRINCIPLE OF BUBBLE WASHING MACHINE	14
S. DIRECTIONS FOR DISASSEMBLY AND ADJUSTMENT	
GEAR MECHANISM ASS'Y REPLACEMENT	
MOTOR SYNCHRONOUS AND VALVE REPLACEMENT	
BRAKE ADJUSTMENT	
. THE REPAIR METHOD OF GEAR MECHANISM FOR CLUTCH	
THE STRUCTURE OF GEAR MECHANISM	
HOW TO CHECK THE CLUTCH SPRING PROBLEM	
THE PROCESS OF DISASSEMBLE	
THE PROCESS OF ASSEMBLE	22
B. TROUBLE SHOOTING GUIDE	
CONCERNING WATER SUPPLY	
CONCERNING WASHING	25
CONCERNING DRAINING	26
CONCERNING SPINNING	
CONCERNING OPERATION	28
). PRESENTATION OF THE P.C.B ASS'Y	29
APPENDIX	
WIRING DIAGRAM	30
PARTS DIAGRAM & PARTS LIST	34
CIRCUIT DIAGRAM	43

1. SPECIFICATIONS

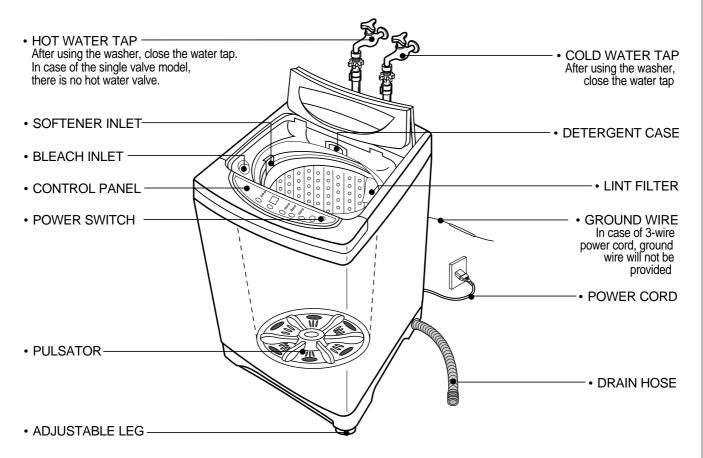
NO.	ITEM		DWF-760	DWF-761	DWF-762	DWF-810	DWF-811	DWF-812		
1	POWER SOURCE	Œ		AVAILABLE IN ALL			LOCAL AC VOLTAGE			
	POWER	50Hz		240W(00V)/320W			
2	CONSUMPTION	60Hz		280	W(100V)/300W(110	0~127V) / 340W(22	0V)			
3	MACHINE	NET	2	28kg/28.5kg(pump) 2		28.5kg/29kg(pump)				
l 3	WEIGHT	GROSS	3	1.5kg/32kg(pump)	32kg/32.5kg(pump)				
4	DIMENSION (W	XHXD)	525X858X535	525X891X535	525X948X535	525X858X535	525X891X535	525X948X535		
5	MATERIAL OF INTER	RNAL TUB		PLASTIC			STAINLESS STEEL	=		
6	WATER LEVEL SEL	ECTOR			HIGH(55ℓ), MID	(45ℓ), LOW(31ℓ)				
7	OPERATING WATER F	PRESSURE		:	29kPa ~ 784kPa (0.	.3kgf/cm ² ~8kgf/cm ²)				
8	MAXIMUM MASS OF	TEXTILE		5.5kg			6.0kg			
	WASH									
9	REVOLUTION	SPIN	66	0~690(100V/50Hz)	, 680~730(50Hz), 7	80~810(100V/60Hz	z), 770~800(60Hz)			
	PER MINUTE	SUIT			50(50Hz),	50(50Hz), 60(60Hz)				
10	WATER CONSUMPTION			APPROX. 130ℓ/CYCLE						
11	WATER LEVEL CO	ONTROL		ELECTRONICAL SENSOR						
12	ANTI NOISE PLA	ATE			OPT	TION				
13	GEAR MECHANIS	M ASS'Y			SPUR	GEAR				
14	LINT FILTER				()				
15	SOFTENER INL	ET	0							
16	ALARM SIGNAL	SNAL O								
17	AUTO. WATER SUPPLY			O						
18	FUNCTION FOR BUBBLE		OPT	OPTION						
19	AUTO RE-FEED WATER			0						
20	AUTO POWER (OFF		0						

2. STRUCTURE OF THE WASHING MACHINE

The parts and features of your washer are illustrated on this page. Become familiar with all parts and features before using your washer.

NOTE

- The drawing in this book may vary from your washer model. They are designed to show the different features of all models covered by this book, Your model may not include all features.
- Page references are included next to same features.
 Refer to those pages for more information about the features.



Accessories

DRYTEN(OPTION) HOSE ADAPTER		UNDER COVER(OPTION)	HOSE CONNECTOR(OPTION)
In case of screw shaped inlet hoses water tap adapters will not be provided.			
DRAIN	I HOSE	INLET HOSE(OPTION)	CONNECTOR INLET(OPTION)
NON PUMP MODEL	PUMP MODEL		

3. FUNCTIONS OF THE CONTROL PANEL

Control panel has micom sensor.

As the buttons are pressed, the lamps indicating the selection of your desired washing program will light up.



POWER	Press this switch to turn the power on or off.
WATER TEMP.	 It can be used to choose water temperature to be supplied. As the button is pressed, water temperature will be repeated. COLD → COLD+HOT → HOT In case of the single valve model, there is no wash temperature selector function.
WATER	 It can be used to adjust amount of water according to the size of the load to be washed. As the button is pressed, water level is selected by MID → HIGH → LOW
RES.	It can be used to pre-engage time for wash.
PROCESS	It is the button for the partial process or the combination of each process (wash, rinse, spin)
CONTROL ONLY SPIN	If you want to change wash time, rinse times, spin time, you must press this button after selection each process by the process button. Also, this button can be used to spin only.
PROGRAM	 It can be used to select the full-automatic program. As the button is pressed, program will be selected by following order: FUZZY → FUZZY+SOAK → HEAVY → HEAVY+SOAK → SPEEDY → SUIT(WOOL)
START /HOLD	 Operation and temporary stop is repeated as it is pressed. When you want to change program in operation; press the "START/HOLD" button → Select the program that you want to change → press the "START/HOLD" button again.



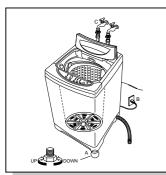
- If you open the Door(Lid) When wash and rinse processing, the PULSATOR is not working with "LE" signal on the PCB and Buzzer alarm.
- And if close the Door(Lid), the remain process will be done continuously.

4. DIRECTIONS FOR INSTALLATION AND USE

Location Of Washer

Check location where washer will be installed. Make sure you have everything necessary for correct installation. Proper installation is your responsibility.

- Do not place or store your washer below 0°C(32°F) to avoid any damage from freezing.
- Install the washer on the horizontal sold foor.



If the washer is installed on an unsuitable floor, it could make considerable noise, vibrate and cause a malfunction.

If washer is not level, adjust the front leg(A) up or down for horizontal set-

- Earthed electrical outlet(B) is required with 20cm of bottom back of washer cabinet.
- Hot and cold water faucets (C) must be within 1M of the upper back of the washer cabinet and provide water pressure 29kPa ~ 784kPa (0.3kgf/cm² ~ 8kgf/cm²)

Drain System

Never forget to install drain hose before operating your washer.

The packing box is opened, there are a drain hose.

Conect the drain hose to the drain outlet at the back side of the washer.

Non-Pump Model	Pump Model
Drain hose	Drain Outlet



NOTES

The opening must not be obstructed by carpeting when the washing machine is installed on a carpeted floor.

Non-Pump Model						
1) In case that it goes over a door sill. Don't let the height of the drain hose exceed 20cm from the bottom of washer.	2 In case of extending the drain hose. Don't let the total length exceed 3m.	3 Be careful that the end of the drain hose is not immersed in water.				

Pump Model					
Laundry tub drain system	Standpipe drain system				
• Top of tub must be at least 86cm (34inches) high and no higher than 130cm from bottom of washer (A)	Needs a 3cm minimum diameter standpipe with minimum carry away capacity of 30liters per minute. Top of tub must be at least 86cm(34inches) high and no higher than 130cm from bottom of washer (B)				

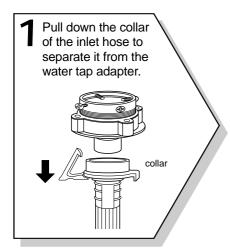
How to Connect the Inlet Hose

Be careful not to mistake in supplying between the hot(maximum: 50°C) and cold water.

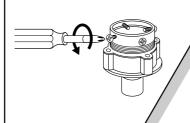
In using only one water tap or in case of attached one water inlet valve, connect the inlet hose to the cold water inlet valve.

Do not over tighten: this could cause damage to couplings.

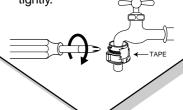
• • • • FOR ORDINARY TAP

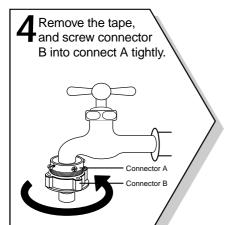


2 Loosen the four screws at the water tap adapter, but don't loosen the screws until they are separated from the water tap adapter.

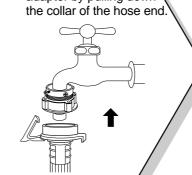


Connect the water tap adapter to the water tap and tighten the four screws evenly while pushing up the adapter so that the rubber packing can stick to the water tap tightly.





5 Connect the inlet hose to the water tap adapter by pulling down the collar of the hose end.

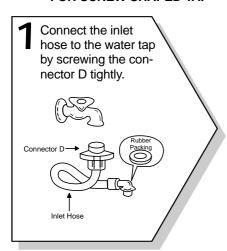


6 Connect the inlet hose adapter of the hose to the water inlet of the washer by turning it clockwise to be fixed tightly.

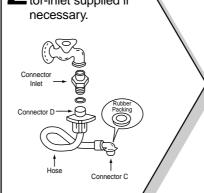


 Please check the rubber packing inside the inlet hose adapter of the hose.

• • • • FOR SCREW-SHAPED TAP



2 Connect the connector-inlet supplied if necessary.



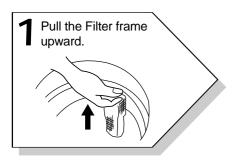
3 Insert the inlet hose adapter into the water inlet of washer and turn it to be fixed.

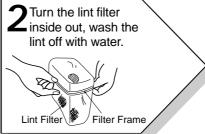


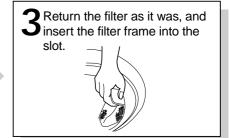
· Assert the packing in the inlet

How To Clean The Filter

•••• CLEANING THE LINT FILTER





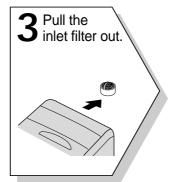


•••• CLEANING THE WATER INLET FILTER

• Clean the filter when water leaks from the water inlet.



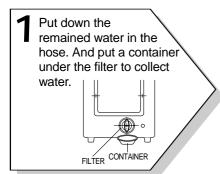
2 Turn off the water supply to the washer and separate the inlet hose.

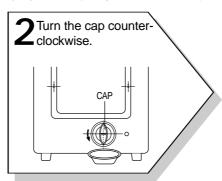


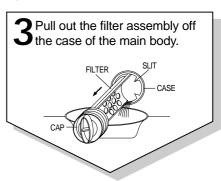
Remove the dirt from the inlet filter with a brush.

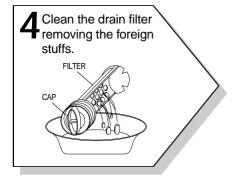
• • • • CLEANING THE DRAIN FILTER

- In case of "U" shaped drain hose, this filter's equipped at the back side of washer.
- This drain filter is to screen the foreign stuffs such as threads, coins, pins, buttons etc ..
- If the drain filter is not cleaned at proper time (every 10 times of use), drain problem could be caused.

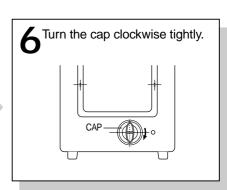








Put in the filter along the guiding prominence of the case. Please note the left position of the filter adjusting the groove to the guide rib.



5. FEATURE AND TECHNICAL EXPLANATION

Feature of the Washing Machine

- 1) The first air bubble washing system in the world.
- 2 Quiet washing through the innovational low-noise design.
- (3) The wash effectiveness is much more enhanced because of the air bubble washing system.
- (4) The laundry detergent dissolves well in water because of the air bubble washing system.
- (5) The adoption of the water currents to adjust the unbalanced load.
- (6) One-touch operation system.

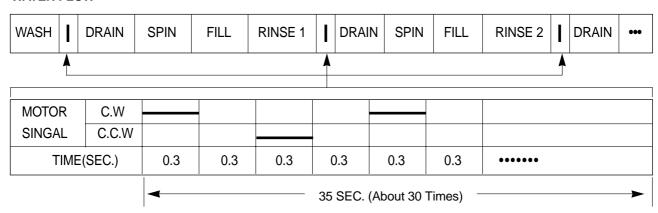
Water Current to Adjust the Unbal anced Load

It is a function to prevent eccentricity of the clothes after wash by rotating pulsator C.W and C.C.W for 35 seconds.(But, the SUIT course have no operation of the water currents to adjust the unbalnced load.)

EFFECT

It reduces vibration and noise effectively while spinning.

WATER FLOW



Automatic Water Supply System

The water level would be lowered because the clothes absorbs water at the beginning of washing. Therefore, after 60 seconds, the operation is interrupted to check the water level, and then the water is supplied again until the selected water level is reached.

Automatic Drainning time Adjustment

This system adjusts the draining time automatically according to the draining condition.

Draining	Good draining	The washer begins spin process after drainage.		
Draining condition	Bad draining	Draininig time is prolonged.		
Condition	No draining	Program is stopped and gives the alarm.		

FUNCTIONAL PRINCIPLE

1 The micom can remember the time from the begining of drain to reset point when the pressure switch reaches to "OFF" point

Drain Time	Movement of the Program
Less than	Continue draining
10 minutes	Continue draining
More than	Program stops and gives the alarm with $\mathbf{H}\mathbf{E}$ blinked on display lamp.
10 minutes	Trogram stops and gives the diamit with all billined on display lamp.

2) In case of continuous drain Draining time as a whole = D	ing, residual drain time is determined by micom.
J	Residual drain time. The time remembered by micom.

Softener Dispenser

This is the device to dispense the softener automatically by centrifugal force.

This is installed inside the auto-balancer.

FUNCTIONAL PRINCIPLE

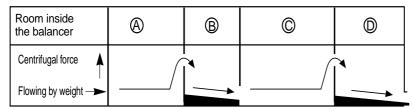
- 1 Softener stays in room (A) when poured into softener inlet.
- (2) Softener moves from (A) to (B) by centrifugal force during intermittent spin process.
- (3) Softener flows from (B) to (C) during rinse process next to intermittent spin.
- (4) Softener moves from (C) to (D) by centrigfugal force during second intermittent spin.

After spin process is finished, the softener is added into the tub through softener outlet.

FLOW OF THE SOFTENER

	Wash	Intermittent Spin	Hold	Intermittent Spin	Rinse	Spin
Normal	Centri foi	fugal rce	Flow in	Centrifugal force	Flow in	
Program	(A) ——	→ (B) —	→ (C) —	→ (D)	──	

FLOW OF THE SOFTENER INSIDE OF THE BALANCER

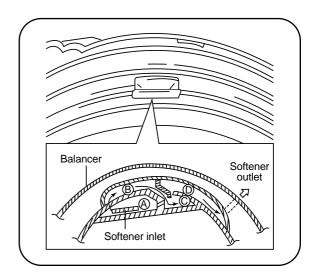




Softener moves into the next room when r.p.m of the tub is more than 100 r.p.m.

HOW TO CHECK MOVEMENT

Pour a reasonable amount of "MILK" into softener dispenser and operate the washer with no load. In final rinse cycle, make sure that the milk is added into the tub through softener outlet.



Automatic Unbal ance Adjustment

This system is to prevent abnormal vibration during intermittent spin and spin process.

FUNCTIONAL PRINCIPLE

- 1 When the lid is closed, the safety switch contact is "ON" position.
- (2) In case that wash loads get uneven during spin, the outer tub hits the safety switch due to the serious vibration, and the spin process is interrupted.
- 3 In case that P.C.B. ASS'Y gets "OFF" signal from the safety switch, spin process are stopped and rinse process is started automatically by P.C.B. ASS'Y.
- (4) If the safety switch is operated due to the unbalance of the tub, the program is stopped and the alarm is given.



NOTES

The alarm finished when you close the lid after opening it. Check the unbalance of the wash load and the installation condition.

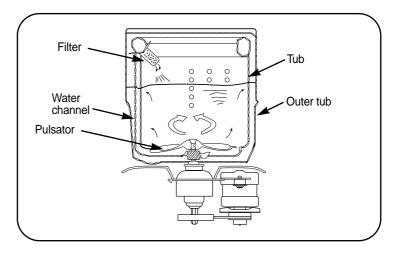
Circul ating-Water

CIRCULATING-WATER

The washing and rinsing effects have been improved by adopting the water system in which water in the tub is circulated in a designed pattern.

When the pulsator rotates during the washing or rinsing process, the water below the pulsator vanes creates a water currents as shown in figure.

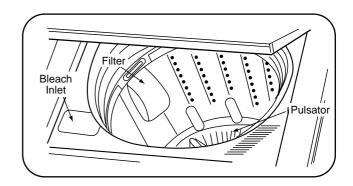
The water is then discharged from the upper part of the tub through the water channel. About 40 L/min. water is circulated at the 'high' water level, standard wash load and standard water currents.



Lint Fil ter

Much lint may be obtained according to the kind of clothes to be washed and some of the lint may also sticks to the clothes.

To minimize this possibility a lint filter is provided on the upper part of the tub to filter the wash water as it is discharged from the water channel. It is good to use the lint filter during washing.



HOW TO REPLACE LINT FILTER

- 1 Pull the filter frame upward.
- (2) Turn the lint filter inside out, and wash the lint off with water.
- (3) Return the filter as it was, and fix the filter frame to the slot.

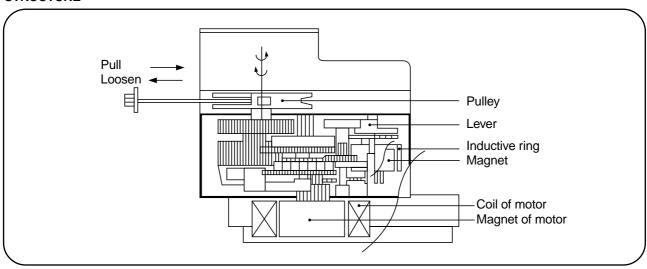
Residual Time Display

When the START/HOLD button is pressed, the residual time (min.) is displayed on the time indicator, and it will be counted down according to process.

When operation is finished, the TIME INDICATOR will light up **\(\mathbb{H} \)**.

Drain Motor

STRUCTURE

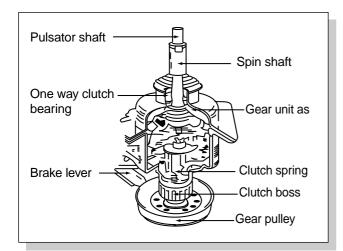


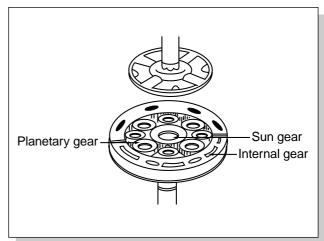
FUNCTIONAL PRINCIPLE

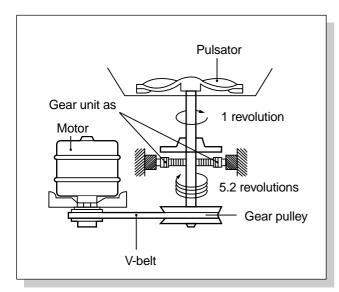
- (1) When the DRAIN MOTOR connected to the power source, the DRAIN MOTOR rotates with 900 r.p.m and revolves the pulley by gear assembly for reducing.
- (2) When the pulley is rotated, the pulley winds the wire to open the drain valve.
- (3) Therefore, rotation of pulley changed to the linear moving of wire.
- (4) The wire pulls the brake lever of Gear Mechanism Ass'y within 5 seconds.
- (5) After the wire pulled, gear assembly is separated from motor and condition of pulling is held by operation of the lever.
- (6) When the power is turned off, the drain valve is closed because the wire returns to original position.

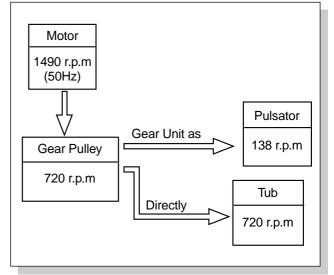
Gear Mechanism Ass'y

The proper water currents is made by the rotation of pulsator at a low speed to prevent the damage to the small sized clothes.



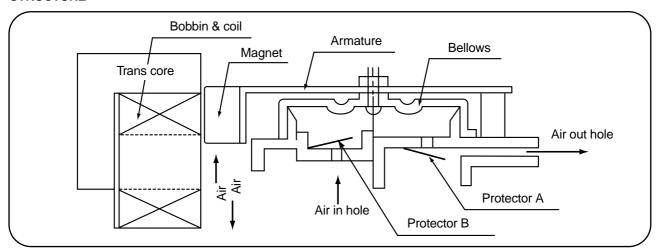






Principl e of Bubbl e Generator

STRUCTURE



PRINCIPLE OF INTAKE & OUTLET OF THE AIR

INTAKE: ARMATURE moves up, and BELLOWS inhales the air. At the same time, protector B is open and A is

OUTLET: ARMATURE moves down, and BELLOWS exhausts the air. At the same time, protector B is close and A is

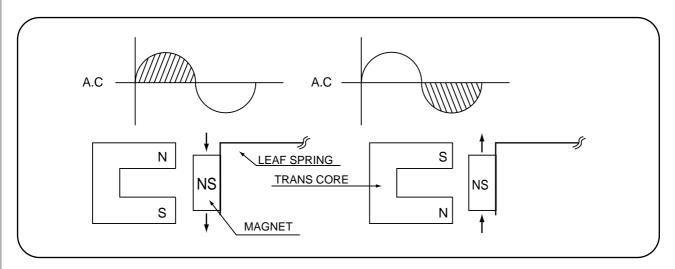
opend.

FUNCTIONAL PRINCIPLE OF TRANS & MAGNET

The phase of A.C electric power changes to 60 cycle/second.

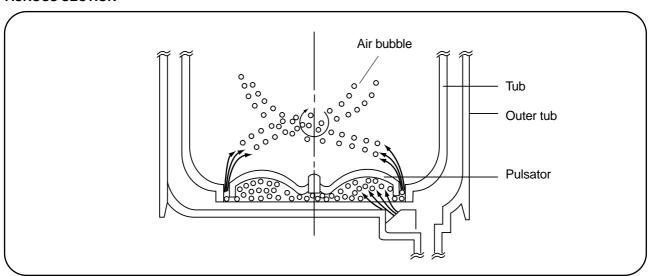
The magnetic pole of trans core is changed by the change of the phase of A.C electric power.

The core repeats push and pull (3600 times/min.) of the armature magnet.



Functional Principle of Bubble Washing Machine

ACROSS SECTION



FUNCTIONAL PRINCIPLE

Bubble generator supplies the air from the bottom of outer tub to the inner space of pulsator, the air is dispersed by the rotation of pulsator. Air-bubble is created by the centrifugal force, and rises up.

6. DIRECTIONS FOR DISASSEMBLY AND ADJUSTMENT

Warning -

BEFORE ATTEMPTING TO SERVICE OR ADJUST ANY PART OF THE WASHING MACHINE, DISCON-NECT THE POWER CORD FROM THE ELECTRIC OUTLET.

Gear Mechanism Ass'y Replacement

Raise the top plate on the outer cabinet. Remove outer tub cover from the tub ass'y.



Loosen the pulsator mounting screw and remove the pulsator.



Remove the spinner shaft flange nut by using 'T' type box wrench.



Remove the tub ass'y.



Lay the front of the washer on the floor. Remove four bolts mounting the plate-gear protect by using a box wrench and remove plate-gear protect. Remove the V-belt.



Remove four bolts mounting the gear mechanism ass'y by using a box wrench.



Pull out the gear mechanism assy.



Motor Synchronous And Valve Replacement (Non Pump Model)

Lay the front of the floor. Loosen two special screw and motor synchronous.



Take out the wire of motor synchonous from the bracket.

Separate the motor sycnchronous from the base.



Turn the valve by using screw driver as shown in picture.



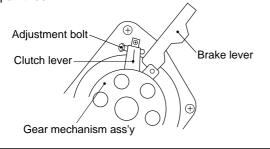
Remove the valve lid from the valve drain assy.



Brake Adjustment

Loosen the adjustment bolt and turn the adjustment bolt until the end of the bolt touches to the brake lever.

Tighten the lock nut and apply a small amount of paint-lock.

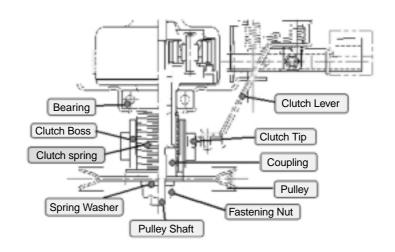


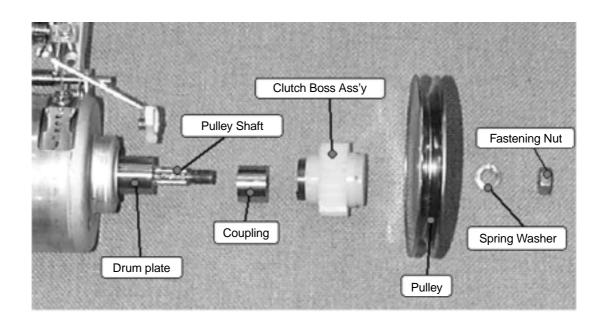
NOTES:

- 1. The brake adjustment has been made at the factory, so that it is not re-adjust. However, in case of insufficient brake operation, problem the upper procedure.
- 2. Overtightening of the adjustment bolt will cause poor brake performance.
- 3. Undertightening of the adjustment bolt will cause continuous braking and thereby. cause the problems of the motor during the spingcycle.

7. THE REPAIR METHOD OF GEAR MECHANISM FOR CLUTCH SPRING PROBLEM

The Structure Of Gear Mechanism





TOOL FOR REPLACING THE CLUTCH BOSS ASSEMBLE

Tool name	Specification	Q'ty
Fixing jig	42	1
Ratchet handle		1
Socket and extension bar	socket : 10mm, 17mm	per each
Some cotton yarn		some

How To Check The Clutch Spring Problem

PROBLEM

- 1) THE LAUNDARY IS IN THE SPIN TUB UNEVENLY WHEN JUST STARTING SPIN PROCESS.
- 2) THEREFORE, IT CAUSE THE SERIOUS NOISE AND VIBRATION WHEN WASHING AND SPINNING PROCESS OR SUPPLING WATER IRREGULARY WHEN SPINNING PROCESS AND CAUSE SHORT OF SPIN PERFOR-MANCE.

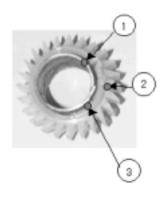
CHECKING METHOD

IN THIS CASE, YOU MUST EMPTY THE SPIN TUB FIRST.

- 1) TO CHECK THE REVOLUTION OF SPIN TUB. IF THE SPIN TUB DOES NOT REVOLVE AND ONLY THE PUL-SATOR IS TURNING, THAT IS CLUTCH SPRING DEFECT.
- 2) TO CHECK THE SPIN SPEED(RPM) BETWEEN SPIN TUB AND PULSATOR. IF YOU FIND THE DIFFERENT SPIN SPEED BETWEEN SPIN TUB AND PUSATOR, THIS IS ALSO CLUTCH SPRING DEFECT.

IN THIS CASE, WE ARE GOING TO SUPPLY THE CLUTCH BOSS ASSEMBLY INSTEAD OF GEAR MECHANISM ASSEMBLEY, PLEASE REFER TO FOLLOWING FIG.

THE CLUTCH BOSS ASSEMBLY



NO.	PARTS NAME	SPECIFICATION	CODE	Q'TY
1	CLUTCH SPRING	SWP-A, 1.5X1.2	4505E37073	1
2	CLUTCH BOSS	PP	3619301300	1
3	GREASE	beacon#325 3g		
PACKING METHOD	PACKING THE CLUTCH BOSS ASS'Y BY USING VINYL PACK			1

CLUTCH BOSS ASS'Y PART CORD: 3610028000

The Process Of Disassemble

Disassemble 1

No.	Proc	ess	Notice
1	Release screws marked 4-point	Remove the protector	Use wrench or driver - ratchet handle - extension bar - socket : 10mm
	Trelease selews marked 4 point		
2	Belt	Remove the v-belt	
3	Fastening Nut	Loosen the fastening nut	Use fixing jig for pulley as to see fig 1. and 17mm-socket for nut
4	Spring Washer	Disassemble the spring washer	Take out plain washer if it has

Disassemble 2

No.	Proc	cess	Notice
5	Pulley	Disassemble the pulley	
6	Clutch Boss Ass'y	Disassemble the clutch boss assembly	Catch the boss and pull upward with spiral rotate in the clockwise direction
7	Coupling Clutch Boss Ass'y	Separate coupling from clutch boss ass'y	
8	THESE PARTS NEEDED CLEAN finished face Coup I ing	Cleaning	Clean the drum plate, coupling surface and contact face between drum plate and coupling It is necessary to keep cotton piece goods being dry and clean

The Process Of Assemble

Assemble 1

No.	Proc	ess	Notice
1	Uneven Face Coupling	Assemble the coupling	Check the uneven face of coupling is assembled upward
2	New Clutch Boss Ass'y	Assemble the new clutch boss ass'y	 Push in the clutch boss ass'y with rotating on the clockwise direction. After assembling, rotate on the clockwise more 2~3 teeth and pull out the pulley shaft upward
3	Pulley	Assemble the pulley	
4	Spring Washer	Assemble the spring washer	If there was plain washer, you have to assemble plain washer the first and then assemble spring washer

Assemble 2

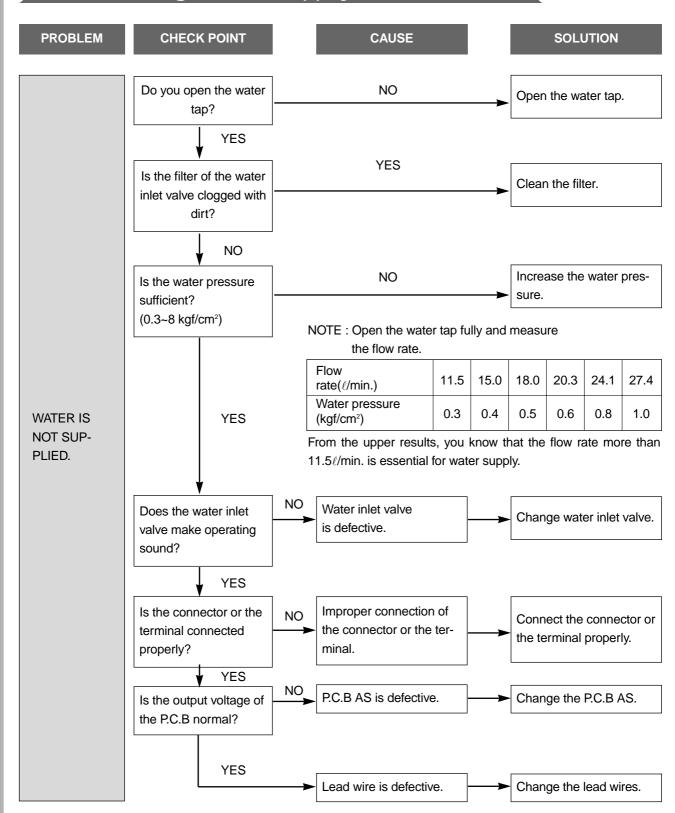
No.	Proc	ess	Notice
5	Fastening Nut	Assemble the fastening nut	- Use fixing jig and 17mm socket wrench as if disassembling, as fastening torque about 100~200kgf-cm Check the end-play, up and downward and check the binding force, too much or not on bi-direct of rotation.
6	Belt	Assemble the Belt	
7	Protector	Assemble the protector	
8	S y n D r	Final checking	Finally, check the distance between brake lever and control bolt. (2~3mm) Also, check the interferance depth both clutch tip and clutch boss(3.5~4.5mm)

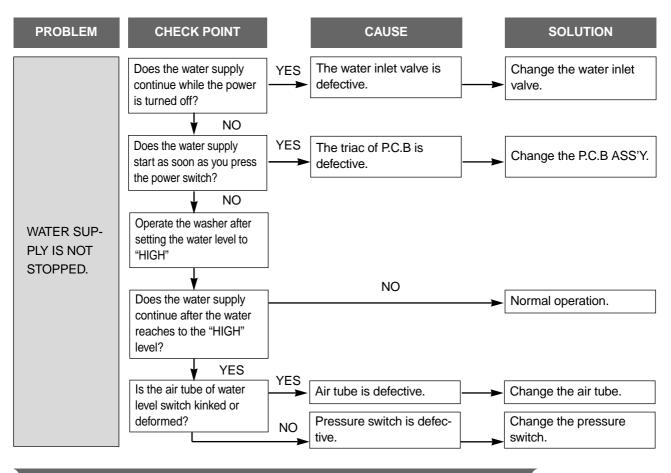
8. TROUBLE SHOOTING GUIDE



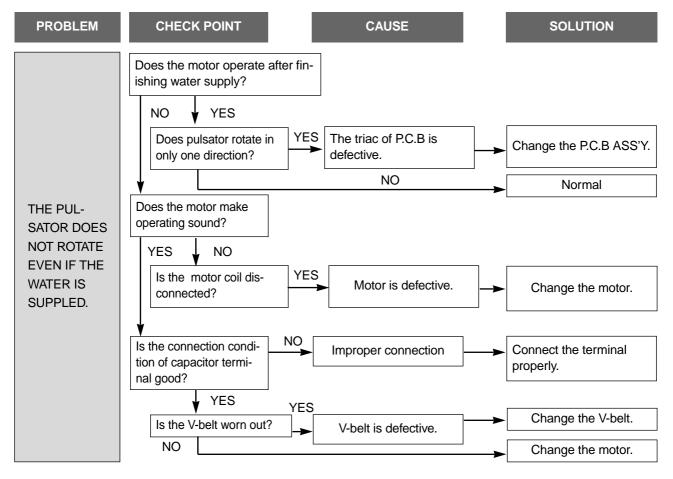
- 1. When replace the P.C.B. ASS'Y do not scratch the surface of the P.C.B. ASS'Y.
- 2. Disconnect the power cord from the electric outlet.

Concerning Water Supply

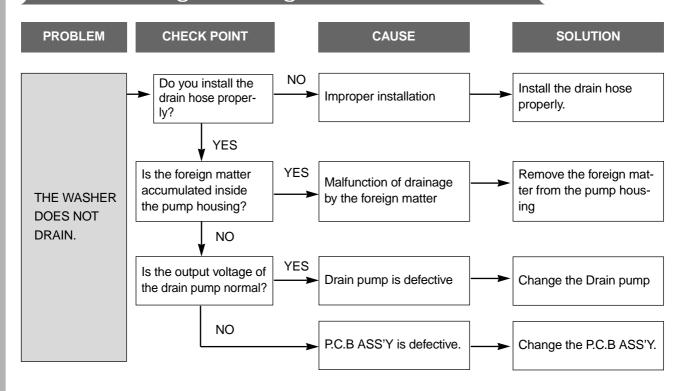




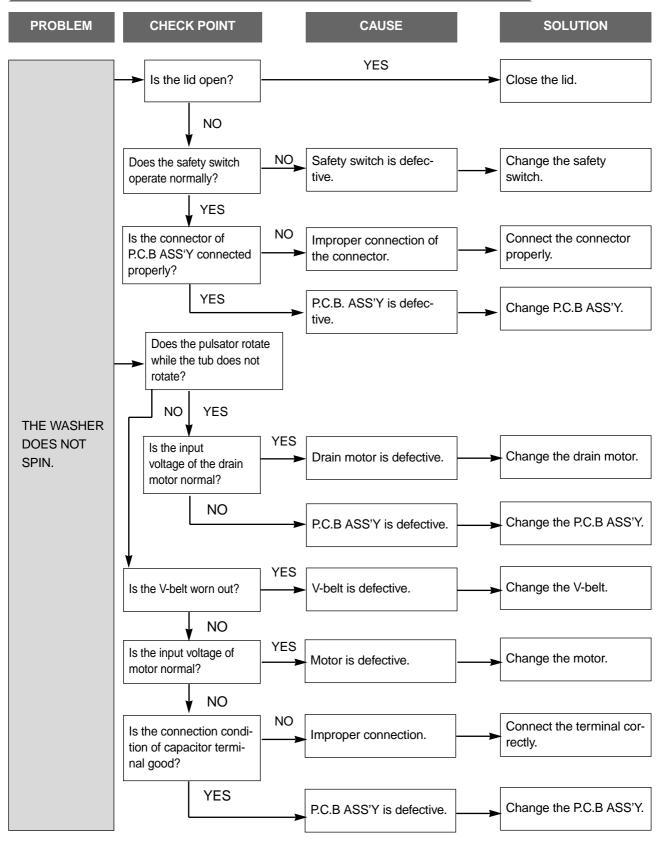
Concerning Washing



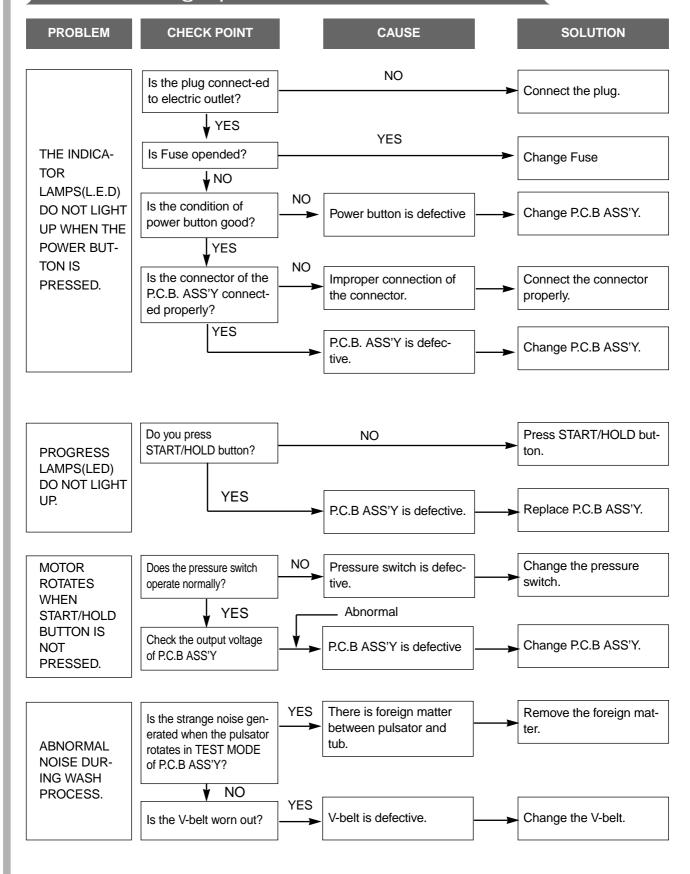
Concerning Draining



Concerning Spinning



Concerning Operation

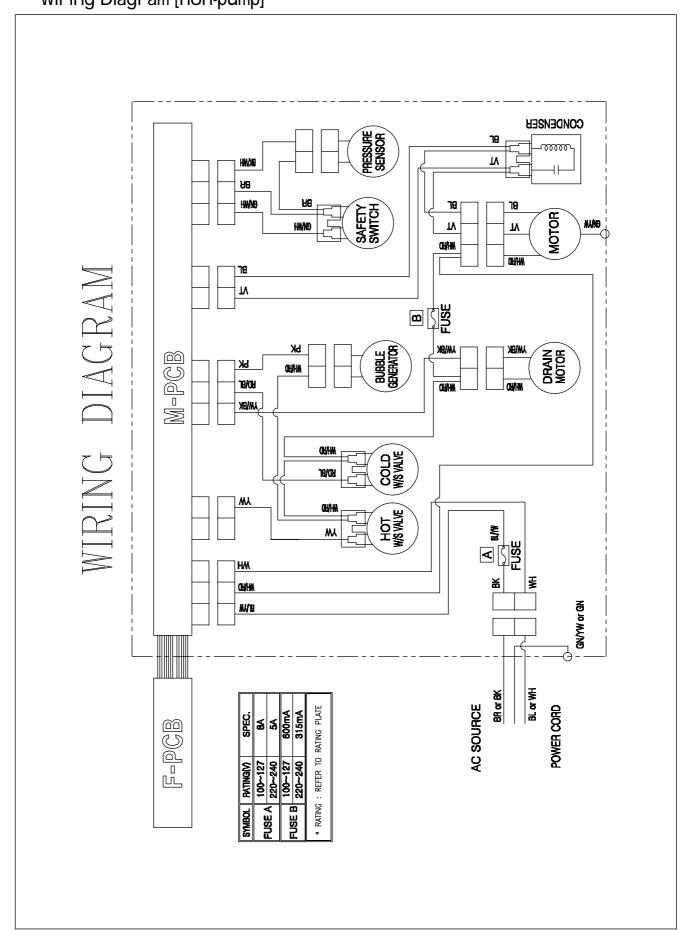


9. PRESENTATION OF THE P.C.B ASS'Y

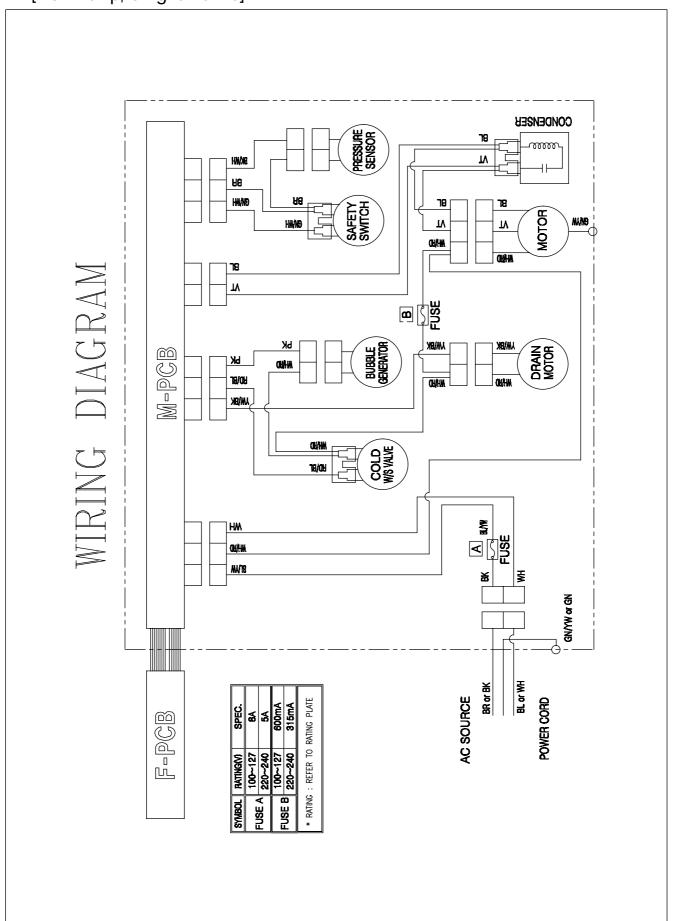
Concerning Error Message

MESSAGE	CAUSE	SOLUTION
	Improper installation of drain hose.	Install drain hose properly.
UE	The drain hose is blocked up by foreign matter.	Remove foreign matter from drain hose.
	Drain motor is inferior.	Change drain motor.
	The water tap is closed.	Open the water tap.
IE	The water inlet filter clogged.	Clean the water inlet filter.
	It passes over the 30 minutes, yet it doesn't come to assigned water level.	Check whether or not is comes to the assigned water level.
	Wash loads get uneven during spin.	Re-set wash loads evenly.
LE	Poor installation of the unit.	Proper installation.
LE	The lid is opened.	Close the lid.
ムニ	The safety switch is inferior.	Change the safety switch.
EB	The load sensing is inferior. After the load sensing operates about 7 seconds, the message is displayed during 1 second and water level is always fixed 'high'.	Change the P.C.B. ASS'Y.
EB	The water level sensing is inferior.	Check the water level sensor and the contact part of the connector.

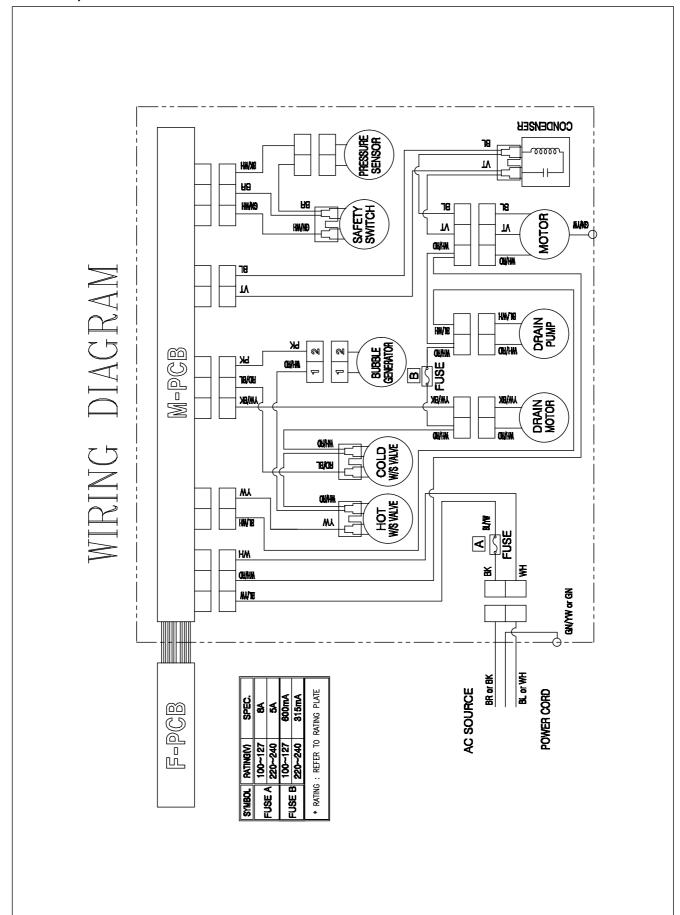
Wiring Diagram [non-pump]



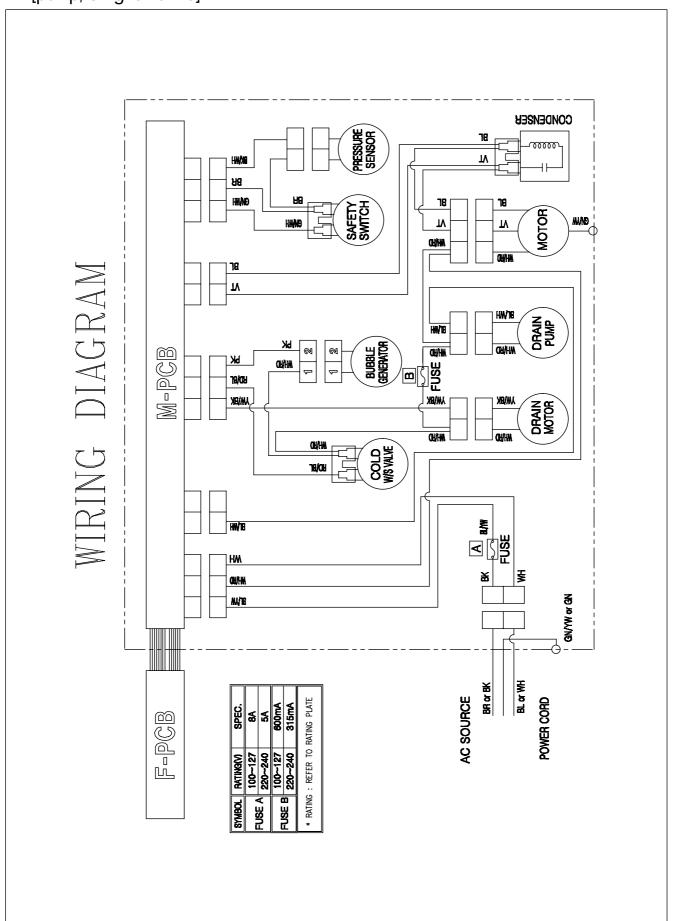
[Non-Pump, Single Valve]



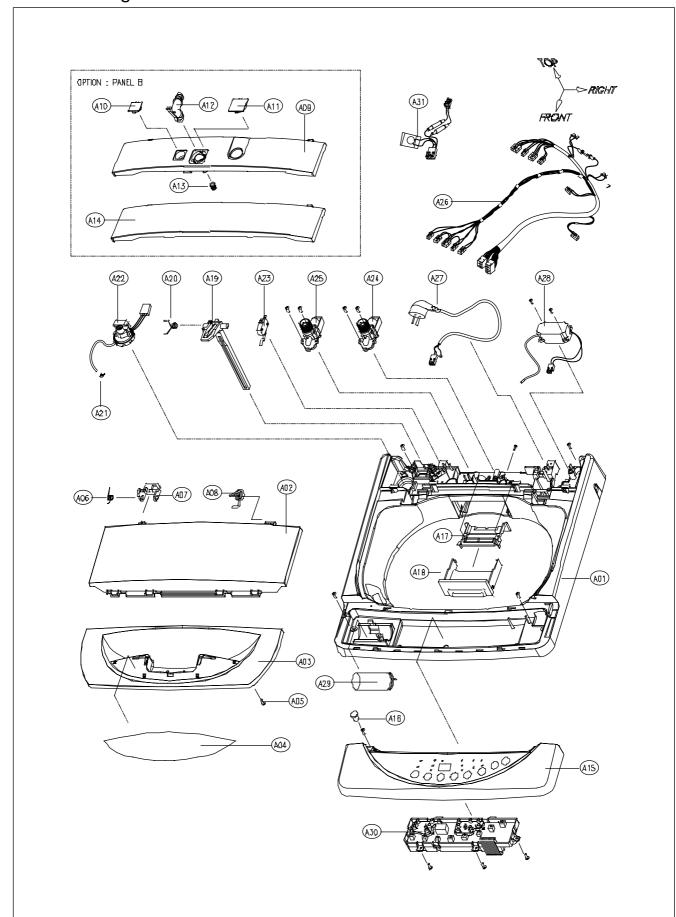
[Pump]



[pump, single val ve]

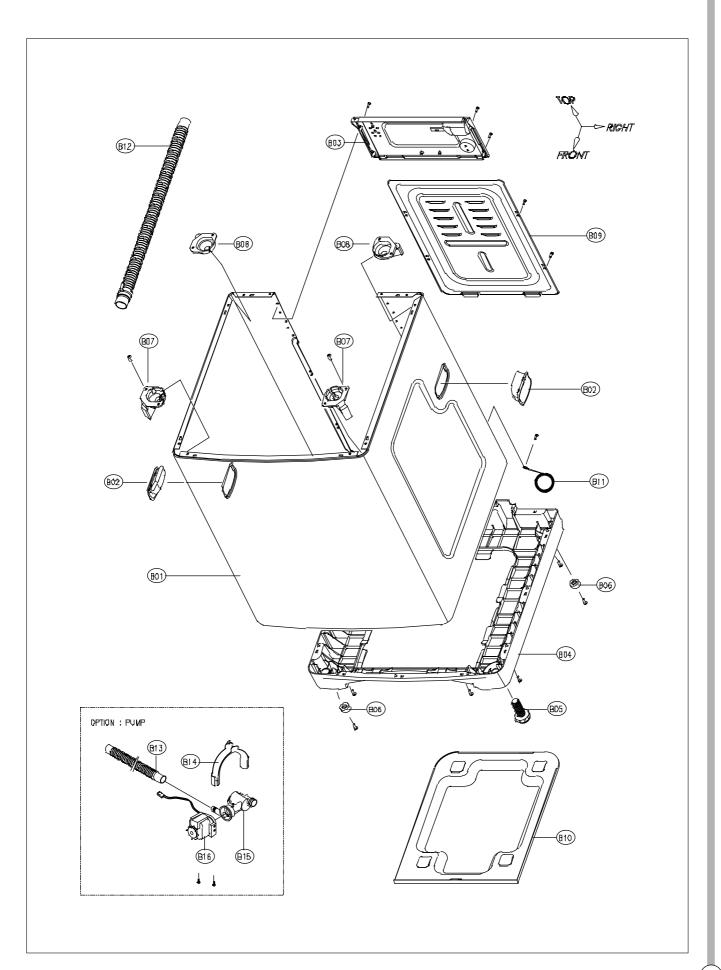


Parts Diagram

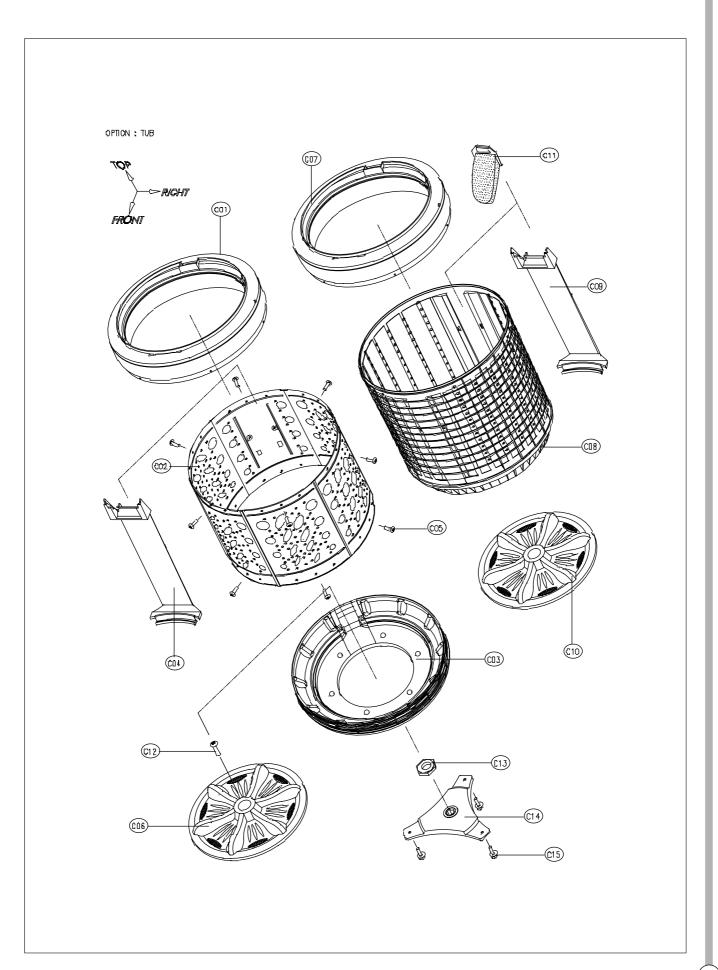


NO.	PART NAME	PART CODE	SPECIFICATION	REMARK
A01	PLATE T	3614527400	PP	
A02	DOOR B	361A100400	PP	
A03	DOOR F	361A100300	PP	
A04	HANDLE DOOR	3612606400	ABS	
A05	CUSHION DOOR	3611559900	NR	
A06	SPRING PLATE LEVER	3615111801	HSW 3 D=1.0	
A07	PLATE LEVER	3614521400	PP	
A08	SPRING DOOR	3615112101	HSW3 D=3.4	
A09	PANEL B	3614276400	PP	
A10	CAP WATER	3610911900	PP	OPTION:
A11	CAP DRY	3610911800	PP	UPWARD WATER VALVE
A12	CONNECTOR AS	3619506800	CONNECTOR+RING	
A13	PACKING	3614002200	SILICON	_
A14	PANEL B	3614276500	PP	OPTION : BACKWARD
A15	PANEL F	3614276300	ABS	
A16	CAP PANEL	3610913900	NR	
A17	NOZZLE DETERGENT	3618102600	PP	
A18	CASE DETERGENT	3611130700	PP	
A19	LEVER SAFETY S/W	3613701800	POM	
A20	SPRING LEVER SAFETY	3615111701	HSW 3 D=1.0	
A21	CLAMP	4507D08150	MFZN HOSE ID=7PIE	
A22	SENSOR PRESSURE AS	3614802530	D03N, 165, L1=600, L2=100	
A23	COVER SWITCH	4507K44031	15A 220VAC 1006FD	
A24	VALVE INLET COLD	3615403510	AC 110-130V/60Hz COLD 270°	BACKWARD
		3615403711	AC 220-240V/50,60Hz,COLD 270°	
		3615403311	AC 100V/50,60Hz COLD 270°	UPWARD
		3615403510	AC 110-130V/60Hz COLD 270°	
		3615403711	AC 220-240V/50,60Hz COLD 270°	
A25	VALVE INLET HOT	3615403630	AC 110-130V/60Hz HOT 90°	BACKWARD
		3615403831	AC 220-240V/50,60Hz HOT 90°	
A26	HARNESS AS	3612792023	100V,8A,NP,C,NB,JAPAN	NON-PUMP(NP)
		3612792021	110V,8A,NP,C,B	(NB:NON-BUBBLE,
		3612792024	110V,8A,NP,C,NB	B:BUBBLE)
		3612792022	220V,5A,NP,C,B	
		3612792025	220V,5A,NP,C,NB	
		3612792010	110V,8A,P,B	PUMP(P)
		3612792012	110V,8A,P,NB	(NB:NON-BUBBLE,
		3612792011	220V,5A,P,B	B:BUBBLE)
		3612792013	220V,5A,P,NB	
		3612792101	220V,5A,P,B,AUSTRALIA	
A27	CORD POWER AS	3611337000	F H05VV 3X0.75 1.9M WH	CHILE
		3611337100	RVCTFK 2X0.75 1.9M GY	JAPAN
		3611337200	N LFC-3R 3X0.75 1.9M GY	AUSTRALIA
		3611337300	F H05VV 3X0.75 1.9M WH	ITALY

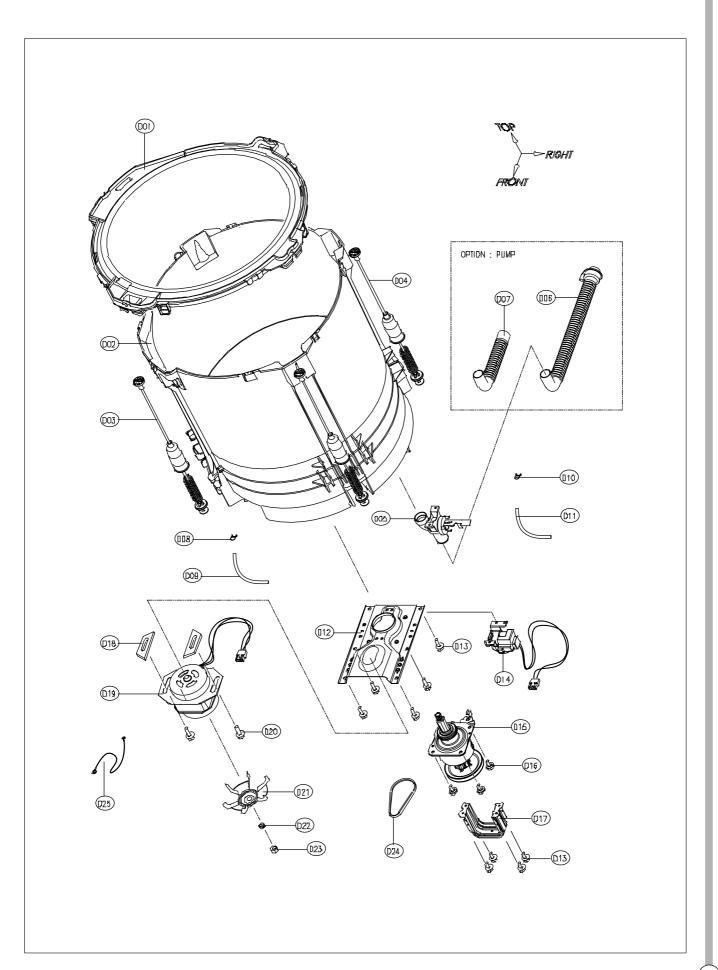
NO.	PART NAME	PART CODE	SPECIFICATION	REMARK
A27	CORD POWER AS	3611337400	RW-300/500 3X0.75 1.9M	PR. CHINA
		3611337500	VCTF 3X0.75 1.9M	INDIA
		3611337600	U VCTF 3X0.75 1.9M GY	SOUTH KOREA
		3611337700	P VCTF 3X0.75 1.9M WH	KUWAIT
		3611337800	VCTF 3X0.75 1.9M WH	KUWAIT, OMAN
		3611337900	H05VV-F 3X0.75 1.9M WH	MALAYSIA
		3611338000	H05VV-F 3X0.75 1.9M	SINGAPORE
		3611337710	BS1363, 3x0.75, 1.9M	SINGAPORE
		3611332810	A-VCTFK 2X0.75 1.9M BK	TAIWAN
		3611338200	F H05VV 3X0.75 1.9M BK	EUROPEAN NATIONS
		3611338300	C SJT 3X18AWG 1.9M GY	PANAMA, USA
		3611338400	H05VV-F 3X0.75 1.9M GY	ARGENTINA
		3611338500	H05VV-F 3X0.75 1.9M GY	SOUTH AFRICA
		3611338600	P VCTF 3X0.75 1.9M WH	OMAN
A28	UNIT BUBBLE AS	3618946303	CDK-230H 220-240V L=750	OPTION
		3618946403	CDK-115H 100-130V L=750	
A29	UNIT CAPACITOR	3618959700	7.5µF 400VAC CAN-TYPE	AC 240V/50Hz
		3618911600	8.4µF 400VAC CAN-TYPE	AC 220-230V/50,60Hz
		3618911900	30µF 200VAC CAN-TYPE	AC 120-127V/60Hz
		3618912000	33.6µF 230VAC CAN-TYPE	AC 110V/60Hz
		3618911800	41.6µF 230VAC CAN-TYPE	AC 100V/50,60Hz
A30	PCB AS	PRPSSWUA00	AC 100V/50,60Hz, NON-BUBBLE	NON-PUMP
		PRPSSWUA01	AC 110V/60Hz, BUBBLE	
		PRPSSWUA03	AC 110V/60Hz, NON-BUBBLE	
		PRPSSWUA06	AC 220V/60Hz, NON-BUBBLE	
		PRPSSWUA08	AC 220-230V/50Hz, BUBBLE	
		PRPSSWUA09	AC 220-230V/50Hz, NON-BUBBLE	
		PRPSSWUA11	AC 240V/50Hz, BUBBLE	
		PRPSSWUA04	AC 110V/60Hz, BUBBLE	PUMP
		PRPSSWUA05	AC 110V/60Hz, NON-BUBBLE	
		PRPSSWUA07	AC 220V/60Hz, BUBBLE	
		PRPSSWUA02	AC 220V-230/50Hz, BUBBLE	
		PRPSSWUA10	AC 220V-230/50Hz, NON-BUBBLE	
		PRPSSWUA12	AC 240V/50Hz, BUBBLE	
A31	UNIT FILTER	3618956710	7A, 12MH	OPTION



NO.	PART NAME	PART CODE	SPECIFICATION	REMARK
B01	CABINET	3610809600	PAINTED STEEL SHEET 0.6T	
B02	HANDLE CABINET	3612603300	PP	
B03	PLATE UPPER	3614521600	PP	
B04	BASE U	3610389100	PP LOW H=45	DWF-760/810
		3610389200	PP HIGH H=135	DWF-762/812
		3610389000	PP - JAPAN	DWF-761/811
B05	LEG ADJUST AS	3617702120	SCREW(4*14)	
B06	LEG FIX	3617703000	SBR	
B07	HOLDER SUPPORT F	3613044600	FRPP(GF30%)	FRONT
B08	HOLDER SUPPORT B	3613044500	FRPP(GF30%)	REAR
B09	COVER BACK	3611413600	SPG 0.4T	
B10	COVER UNDER	3611418500	PP	OPTION
B11	HARNESS OUTER	3610068700	50/0.18GREEN ST710489-2	2-WIRE POWER CORD
B12	HOSE DRAIN O AS	3613218100	LDPE L=833	NON-PUMP, JAPAN
		3613226600	L=950mm, HANGER	NON-PUMP
B13	HOSE DRAIN O AS	3613218800	LDPE/EVA L=1600 PUMP	PUMP
B14	GUIDE DRAIN HOSE	3612502300	PP	
B15	FILTER AS	3611904900	DWF-800WNP E-TYPE	
		3611904910	DWF-800WNP E-TYPE	AUSTRALIA
B16	UNIT DRAIN PUMP	3618962300	110V/60Hz,67872,800W	PLASET
		3618962200	220V/60Hz,67876,800W	
		3618962400	220-240V/50Hz,67869,800W	
		3618959100	110-120V/60Hz	ASKOLL
		3618959000	220V/60Hz	
		3618958900	220-240V/50Hz	

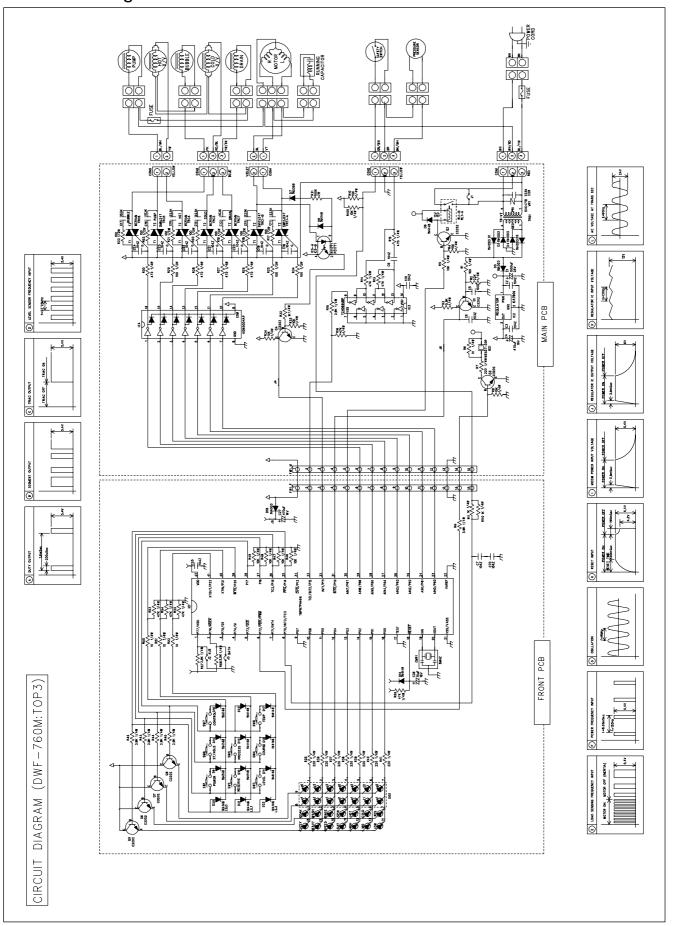


NO.	PART NAME	PART CODE	SPECIFICATION	REMARK
C01	BALANCER AS	3616104700	DWF-6010	STAINLESS STEEL
C02	TUBI	3618808501	SUS 0.5T	
C03	TUB U	3618808601	PP	
C04	GUIDE FILTER AS	3612507000	DWF-6010NP	
C05	SPECIAL SCREW	3616003700	SUS 5.5X16	
C06	PULSATOR AS	3719706700	DWF-800WNP	
C07	BALANCER AS	3616104500	DWF-5510PN	PLASTIC
C08	TUBI	3618808100	PP	
C09	GUIDE FILTER	3612503900	PP	
C10	PULSATOR AS	3619706600	DWF-750WTP	
C11	FILTER AS	4505E82002	POLYESTER 90X120 INSERT	
C12	SPECIAL SCREW	3616002901	SUS 304 NON-SILOCK	
C13	SPECIAL NUT	4507D83080	SUS 304	
C14	FLANGE TUB	3617201100	5KG 3-FOOT	
C15	SPECIAL SCREW	3616007000	SCM24H, 6.5x24	



NO.	PART NAME	PART CODE	SPECIFICATION	REMARK
D01	COVER TUB O	3611414600	PP	ONLY JAPAN
		3611418400	PP	
D02	TUB O	3618807600	PP	ONLY JAPAN
		3618817600	PP	
D03	SUSPENSION AS F	3619804200	FRONT	
D04	SUSPENSION AS B	3619804300	REAR	
D05	VALVE DRAIN AS	3615408500	DWF-750M	NON-PUMP
D06	HOSE DRAIN I AS	3613227010	EVA 100%	
		36100AAA00	EVA 100% DWF-801WJC W;59g	ONLY JAPAN
D07	HOSE DRAIN I AS	3613226900	LDPE+EVA DWF-800WNP	PUMP
D08	CLAMP	4507D08150	MFZN HOSE ID=7PIE	OPTION : PUMP
D09	HOSE	4500D08210	ID=4.0	
D10	CLAMP	4507D08150	MFZN HOSE ID=7PIE	OPTION : BUBBLE
D11	HOSE	4500D08210	ID=4.0	
D12	BASE	3610302900	SECEN 1.2T	
D13	SPECIAL SCREW	3616007000	SCM24H 6.5X24	
D14	MOTOR SYNCHRONOUS	3618958750	220-240V/50,60Hz KD-DW22LH	
		3618958720	100-130V/50,60Hz KD-DW11LF	
D15	GEAR MECHANISM	3617307310	GM-0600-KJ4P0	
D16	BOLT HEX	7341801511	6B-1 8X15 MFZN	
D17	PROTECTOR GEAR	3618303600	SGCC 1.2T	
D18	SPECIAL WASHER	4505E34030	PP	
D19	UNIT MOTOR AS	3618959800	W1S30BC003, AC 100/50,60Hz	
		3618959900	W1S30CC004, 110-120V/60Hz	
		3618960201	W1S30VC005, 220-240V/50,60Hz	
D20	BOLT HEX	7650802511	6B-1 8X25 HS MFZN	
D21	PULLEY MOTOR	3618401490	M-TYPE DS=10 DP=53 50Hz	PRESS PULLEY
		3618401480	M-TYPE DS=10 DP=48.5 60Hz	
D22	WASHER SPRING	7401008011	SW-8 MFZN	
D23	NUT HEX	7392800011	M8XP1.25 MFZN	
D24	BELT V	3616590210	M20, AGING	50Hz
		3616590200	M19.5, AGING	60Hz
D25	HARNESS EARTH INNER	3612757010	L=560	

Circuit Diagram





DAEWOO ELECTRONICS CO., LTD.

686, AHYEON-DONG MAPO-GU SEOUL, KOREA C.P.O. BOX 8003 SEOUL, KOREA TELEX: DWELEC K28177-8 CABLE: "DAEWOOELEC"

PRINTED DATE: Aug, 2002